

10/587606

SEQUENCE LISTING

AP20 Rec'd PCT/PTO 27 JUL 2006

<110> Fine, Robert L
Brandt-Rauf, Paul
Mao, Yueha

<120> C-Terminal p53 Palindromic Peptide That Induces Apoptosis of
Cells with Aberrant p53 and Uses Thereof

<130> 68074-A-PCT-US/JPW/JW

<150> PCT/US2005/002543
<151> 2005-01-27

<150> US 60/540,864
<151> 2004-01-30

<160> 9

<170> PatentIn version 3.3

<210> 1
<211> 41
<212> PRT
<213> Artificial Sequence

<220>
<223> Polypeptide based on human p53

<400> 1

Ala Gln Ala Gly Lys Glu Pro Gly Gly Ser Arg Ala His Ser Ser His
1 5 10 15

Leu Lys Ser Lys Lys Gly Gln Ser Thr Ser Arg His Lys Lys Leu Met
20 25 30

Phe Lys Thr Glu Gly Pro Asp Ser Asp
35 40

<210> 2
<211> 41
<212> PRT
<213> Artificial Sequence

<220>
<223> Polypeptide based on human p53

<400> 2

Asp Ser Asp Pro Gly Glu Thr Lys Phe Met Leu Lys Lys His Arg Ser
1 5 10 15

Thr Ser Gln Gly Lys Lys Ser Lys Leu His Ser Ser His Ala Arg Ser
20 25 30

Gly Gly Pro Glu Lys Gly Ala Gln Ala
35 40

<210> 3
<211> 83
<212> PRT
<213> Artificial Sequence

<220>
<223> Palindromic polypeptide based on human p53

<220>
<221> MISC_FEATURE
<222> (42)..(42)
<223> Xaa = Gly or absent

<400> 3

Ala Gln Ala Gly Lys Glu Pro Gly Gly Ser Arg Ala His Ser Ser His
1 5 10 15

Leu Lys Ser Lys Lys Gly Gln Ser Thr Ser Arg His Lys Lys Leu Met
20 25 30

Phe Lys Thr Glu Gly Pro Asp Ser Asp Xaa Asp Ser Asp Pro Gly Glu
35 40 45

Thr Lys Phe Met Leu Lys Lys His Arg Ser Thr Ser Gln Gly Lys Lys
50 55 60

Ser Lys Leu His Ser Ser His Ala Arg Ser Gly Gly Pro Glu Lys Gly
65 70 75 80

Ala Gln Ala

<210> 4
<211> 83
<212> PRT
<213> Artificial Sequence

<220>
<223> Palindromic polypeptide based on human p53

<220>
<221> MISC_FEATURE
<222> (42)..(42)
<223> Xaa = Gly or absent

<400> 4

Asp Ser Asp Pro Gly Glu Thr Lys Phe Met Leu Lys Lys His Arg Ser
1 5 10 15

Thr Ser Gln Gly Lys Lys Ser Lys Leu His Ser Ser His Ala Arg Ser
20 25 30

Gly Gly Pro Glu Lys Gly Ala Gln Ala Xaa Ala Gln Ala Gly Lys Glu
35 40 45

Pro Gly Gly Ser Arg Ala His Ser Ser His Leu Lys Ser Lys Lys Gly
50 55 60

Gln Ser Thr Ser Arg His Lys Lys Leu Met Phe Lys Thr Glu Gly Pro
2/6

65

70

75

80

Asp Ser Asp

<210> 5
 <211> 167
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Palindromic polypeptide based on human p53

<220>
 <221> MISC_FEATURE
 <222> (42)..(42)
 <223> Xaa = Gly or absent

<220>
 <221> MISC_FEATURE
 <222> (84)..(84)
 <223> Xaa = Gly or absent

<220>
 <221> MISC_FEATURE
 <222> (126)..(126)
 <223> Xaa = Gly or absent

<400> 5

Ala Gln Ala Gly Lys Glu Pro Gly Gly Ser Arg Ala His Ser Ser His
 1 5 10 15

Leu Lys Ser Lys Lys Gly Gln Ser Thr Ser Arg His Lys Lys Leu Met
 20 25 30

Phe Lys Thr Glu Gly Pro Asp Ser Asp Xaa Asp Ser Asp Pro Gly Glu
 35 40 45

Thr Lys Phe Met Leu Lys Lys His Arg Ser Thr Ser Gln Gly Lys Lys
 50 55 60

Ser Lys Leu His Ser Ser His Ala Arg Ser Gly Gly Pro Glu Lys Gly
 65 70 75 80

Ala Gln Ala Xaa Ala Gln Ala Gly Lys Glu Pro Gly Gly Ser Arg Ala
 85 90 95

His Ser Ser His Leu Lys Ser Lys Lys Gly Gln Ser Thr Ser Arg His
 100 105 110

Lys Lys Leu Met Phe Lys Thr Glu Gly Pro Asp Ser Asp Xaa Asp Ser
 115 120 125

Asp Pro Gly Glu Thr Lys Phe Met Leu Lys Lys His Arg Ser Thr Ser
 130 135 140

Gln Gly Lys Lys Ser Lys Leu His Ser Ser His Ala Arg Ser Gly Gly
 145 150 155 160

Pro Glu Lys Gly Ala Gln Ala
 165

<210> 6
 <211> 167
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Palindromic polypeptide based on human p53

<220>
 <221> MISC_FEATURE
 <222> (42)..(42)
 <223> Xaa = Gly or absent

<220>
 <221> MISC_FEATURE
 <222> (84)..(84)
 <223> Xaa = Gly or absent

<220>
 <221> MISC_FEATURE
 <222> (126)..(126)
 <223> Xaa = Gly or absent

<400> 6

Asp Ser Asp Pro Gly Glu Thr Lys Phe Met Leu Lys Lys His Arg Ser
 1 5 10 15

Thr Ser Gln Gly Lys Lys Ser Lys Leu His Ser Ser His Ala Arg Ser
 20 25 30

Gly Gly Pro Glu Lys Gly Ala Gln Ala Xaa Ala Gln Ala Gly Lys Glu
 35 40 45

Pro Gly Gly Ser Arg Ala His Ser Ser His Leu Lys Ser Lys Lys Gly
 50 55 60

Gln Ser Thr Ser Arg His Lys Lys Leu Met Phe Lys Thr Glu Gly Pro
 65 70 75 80

Asp Ser Asp Xaa Asp Ser Asp Pro Gly Glu Thr Lys Phe Met Leu Lys
 85 90 95

Lys His Arg Ser Thr Ser Gln Gly Lys Lys Ser Lys Leu His Ser Ser
 100 105 110

His Ala Arg Ser Gly Gly Pro Glu Lys Gly Ala Gln Ala Xaa Ala Gln
 115 120 125

Ala Gly Lys Glu Pro Gly Gly Ser Arg Ala His Ser Ser His Leu Lys
 130 135 140

Ser Lys Lys Gly Gln Ser Thr Ser Arg His Lys Lys Leu Met Phe Lys
145 150 155 160

Thr Glu Gly Pro Asp Ser Asp
165

<210> 7
<211> 164
<212> PRT
<213> Artificial Sequence

<220>
<223> Palindromic polypeptide based on human p53

<400> 7

Ala Gln Ala Gly Lys Glu Pro Gly Gly Ser Arg Ala His Ser Ser His
1 5 10 15

Leu Lys Ser Lys Lys Gly Gln Ser Thr Ser Arg His Lys Lys Leu Met
20 25 30

Phe Lys Thr Glu Gly Pro Asp Ser Asp Asp Ser Asp Pro Gly Glu Thr
35 40 45

Lys Phe Met Leu Lys Lys His Arg Ser Thr Ser Gln Gly Lys Lys Ser
50 55 60

Lys Leu His Ser Ser His Ala Arg Ser Gly Gly Pro Glu Lys Gly Ala
65 70 75 80

Gln Ala Ala Gln Ala Gly Lys Glu Pro Gly Gly Ser Arg Ala His Ser
85 90 95

Ser His Leu Lys Ser Lys Lys Gly Gln Ser Thr Ser Arg His Lys Lys
100 105 110

Leu Met Phe Lys Thr Glu Gly Pro Asp Ser Asp Asp Ser Asp Pro Gly
115 120 125

Glu Thr Lys Phe Met Leu Lys Lys His Arg Ser Thr Ser Gln Gly Lys
130 135 140

Lys Ser Lys Leu His Ser Ser His Ala Arg Ser Gly Gly Pro Glu Lys
145 150 155 160

Gly Ala Gln Ala

<210> 8
<211> 17
<212> PRT
<213> Artificial Sequence

<220>

<223> Membrane carrier peptide derived from Antennaepedia

<400> 8

Lys Lys Trp Lys Met Arg Arg Asn Gln Phe Trp Val Lys Val Gln Arg
1 5 10 15

Gly

<210> 9

<211> 6

<212> DNA

<213> Artificial Sequence

<220>

<223> Restriction enzyme site derived from human p53

<400> 9

ggccgg

6